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[Abstract] [PDF Full-Text (944 KB)] IEEE JNL

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2 **An approach to rollback recovery of collaborating mobile agents**
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3 **Selective checkpointing and rollbacks in multi-threaded object-oriented environment**
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Reliability, IEEE Transactions on , Volume: 48 , Issue: 4 , Dec. 1999
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[Abstract] [PDF Full-Text (929 KB)] IEEE JNL

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4 **Support for software interrupts in log-based rollback-recovery**
Slye, J.H.; Elnozahy, E.N.;
Computers, IEEE Transactions on , Volume: 47 , Issue: 10 , Oct. 1998
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Pages:48 - 57

[Abstract] [PDF Full-Text (1376 KB)] IEEE JNL

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2 **System mechanisms for partial rollback of mobile agent execution**
Strasser, M.; Rothermel, K.;
Distributed Computing Systems, 2000. Proceedings. 20th International Conference on , 10-13 April 2000
Pages:20 - 28

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3 **An application-transparent, platform-independent approach to rollback-recovery for mobile agent systems**
Gendelman, E.; Bic, L.F.; Dillencourt, M.B.;
Distributed Computing Systems, 2000. Proceedings. 20th International Conference on , 10-13 April 2000
Pages:564 - 571

[Abstract] [PDF Full-Text (96 KB)] IEEE CNF

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4 **An efficient rollback recovery algorithm for distributed mobile computing systems**
Juang, T.-Y.T.; Yuh-Shyan Chen;
Performance, Computing, and Communications Conference, 2000. IPCCC '00. Conference Proceeding of the IEEE International , 20-22 Feb. 2000
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1 Approaches to fault-tolerant and transactional mobile agent execution---an algorithmic view

Stefan Pleisch, André Schiper

September 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 3

Full text available: pdf(946.94 KB) Additional Information: full citation, abstract, references, index terms

Over the past years, mobile agent technology has attracted considerable attention, and a significant body of literature has been published. To further develop mobile agent technology, reliability mechanisms such as fault tolerance and transaction support are required. This article aims at structuring the field of fault-tolerant and transactional mobile agent execution and thus at guiding the reader to understand the basic strengths and weaknesses of existing approaches. It starts with a discu ...

Keywords: ACID, Byzantine failures, agreement problem, asynchronous system, commit, crash failures, fault tolerance, malicious places, mobile agents, replication, security, transaction

2 An efficient time-based checkpointing protocol for mobile computing systems over mobile IP

Chi-Yi Lin, Szu-Chi Wang, Sy-Yen Kuo

December 2003 **Mobile Networks and Applications**, Volume 8 Issue 6

Full text available: pdf(173.85 KB) Additional Information: full citation, abstract, references, index terms

Time-based coordinated checkpointing protocols are well suited for mobile computing systems because no explicit coordination message is needed while the advantages of coordinated checkpointing are kept. However, without coordination, every process has to take a checkpoint during a checkpointing process. In this paper, an efficient time-based coordinated checkpointing protocol for mobile computing systems over Mobile IP is proposed. The protocol reduces the number of checkpoints per checkpointing ...

Keywords: checkpointing and rollback-recovery, fault tolerance, mobile computing

3 A survey of rollback-recovery protocols in message-passing systems

E. N. (Mootaz) Elnozahy, Lorenzo Alvisi, Yi-Min Wang, David B. Johnson

September 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 3

Full text available: pdf(549.68 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This survey covers rollback-recovery techniques that do not require special language constructs. In the first part of the survey we classify rollback-recovery protocols into

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1 Agents, interactions, mobility, and systems (AIMS): Using mobile agents as roaming security guards to test and improve security of hosts and networks

Marco Carvalho, Thomas Cowin, Niranjan Suri, Maggie Breedy, Kenneth Ford

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: pdf(307.45 KB) Additional Information: full citation, abstract, references, index terms

This paper discusses the design and implementation details of MAST (Mobile Agent-based Security Tool), a new mobile agent-based network security approach. MAST has been designed to support flexible and customizable network security tasks and training. This paper focuses on the implementation details and security aspects of MAST's components, services, and mobile-agent architecture

Keywords: IHMC, MAST, concept maps, knowledge models, mobile agents, network security

2 Approaches to fault-tolerant and transactional mobile agent execution---an algorithmic view

Stefan Pleisch, André Schiper

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Keywords: ACID, Byzantine failures, agreement problem, asynchronous system, commit, crash failures, fault tolerance, malicious places, mobile agents, replication, security, transaction

3 Recovery guarantees in mobile systems

Cris Pedregal Martin, Krithi Ramamritham

August 1999 **Proceedings of the 1st ACM international workshop on Data engineering for wireless and mobile access**

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